Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

April 2000

Focused on Progress...
Focused on Outcomes!

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0003099.3

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INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B – Restoring the River Corridor Project Summaries, and Section C – Transitioning the Central Plateau Project Summaries.

Section A – Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to Management's attention that information considered to be most noteworthy. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective cleanup. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones and FY00 Management Commitment milestones. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B – Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C – Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

Information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements; yellow indicates that significant improvement is required; and red indicates unsatisfactory conditions requiring immediate corrective actions.

Section A: Executive Summary

SECTION A - EXECUTIVE SUMMARY

Financial data as of month-end February. All other data as of March 23, unless otherwise noted.

NOTABLE ACCOMPLISHMENTS:

Green

Excavation of waste sites at 100-D, 100-H, and 300 Area in progress. Backfill activities were completed at 12 small waste sites (Group 3) in the 100 B/C Area in February. This backfill completion will satisfy Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-16-08B.

All F Reactor ISS demolition was completed except for the fuel storage basin.

The F and DR Reactor safe storage enclosure (SSE) concrete contract was awarded.

The B Reactor Phase II Feasibility Study contract was awarded.

The Integrated Priority List (IPL) was completed for the FY02 budget submittal

Six Tri-Party Agreement milestones were completed in February, all ahead of schedule

The In Situ REDOX Manipulation (ISRM) well drilling commenced in February in the 100 D Area.

Phase I investigation sampling was completed for the 618-11 Burial Ground elevated tritium investigation.

All five groundwater pump and treat systems operated at or above the planned 90% availability levels through February.

Collection and staging of legacy waste for shipment was initiated at KW Reactor.

Completed the Non-Destructive Evaluation (NDE) of crane drum at 221-U canyon (CDI) and issued the final report.

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones

Green

Eleven Tri-Party Agreement milestones have been completed through February, all ahead of schedule. Six Tri-Party Agreement milestones were completed during February. The installation of RCRA groundwater monitoring wells were completed as of February 17. The well installations satisfied completion of Tri-Party Agreement milestones M-24-00K, M-24-41, M-24-42, M-24-43, M-24-44, M-24-45.

Total Tri-Party Agreement Milestones Due in FY00	***16***
Total Planned Through February	*11*
Total Completed Through February	*11*

Remaining Milestones to be Completed in FY00	***5***
Forecast Ahead of Schedule	*1*
Forecast On Schedule	*4*
Unrecoverable	*0*

High Visibility Project Milestones

Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.

Status: *Forecasted to be complete by April 28.*

MAJOR COMMITMENTS continued::

Complete Installation of the Wells and Initiate Injection of the Barrier for Phase 2 of the In Situ REDOX Manipulation Project (PBS ER08) due September 30.

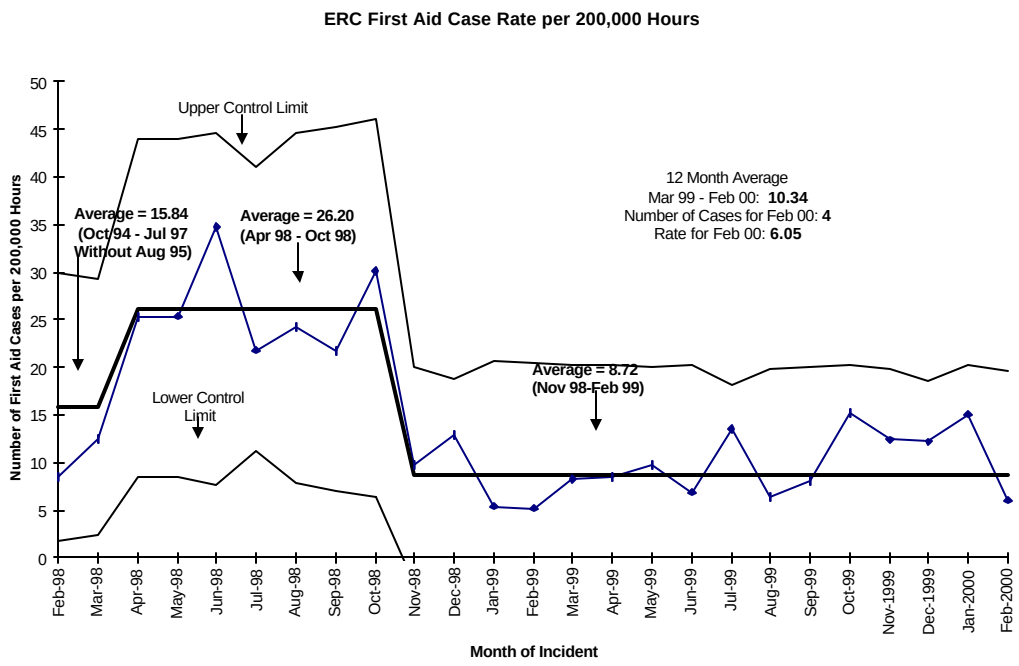
Status: *Forecasted to be complete by September 30.*

Other Major Milestones

Develop and Implement Integrated Safety Management (ISM) due September 30.

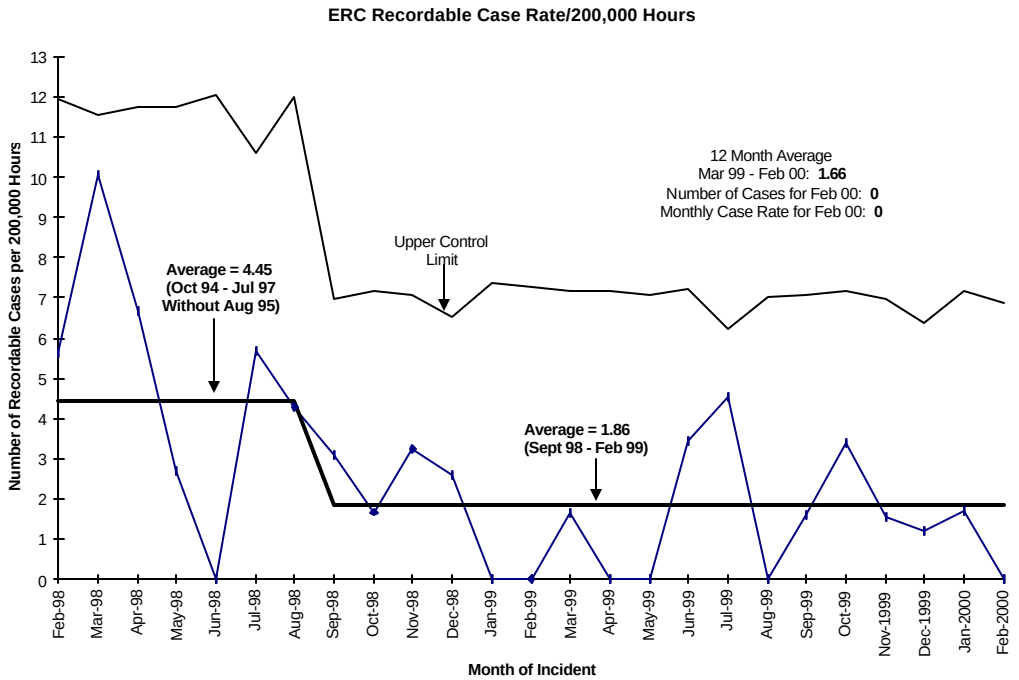
Status: *On schedule.*

SAFETY / ISMS / CONDUCT OF OPERATIONS (Total ER Contract):



Green

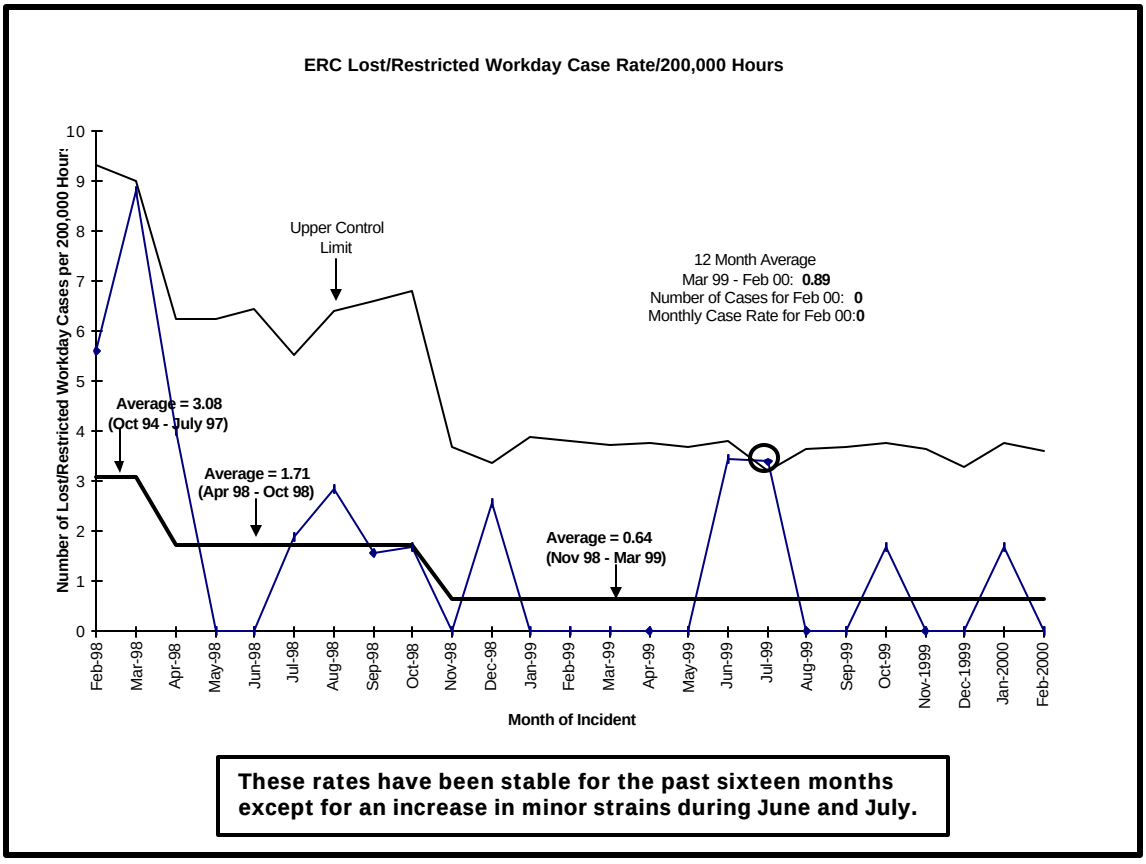
The First Aid Case Rate has been stable for the past sixteen months.



Green

The Recordable Case Rate has shown improvement for six of the last seven months.

SAFETY / ISMS / CONDUCT OF OPERATIONS (Total ER Contract) continued:



Green

- ***Safety:***

	Fiscal YTD	Current Month (Feb)	Current Month Comments
First Aid	*39*	*4*	*(1) abrasion, (1) strain, (1) contusion, (1) exam for puncture*
Lost/Restricted Work Case	*1*	*0*	*N/A*
Lost Work Day Case	*1*	*0*	*N/A*
OSHA Recordable	*5*	*0*	*N/A*

Green

-As of 3/18/00, the ERC has worked approximately 643,250 hours since last lost workday case.

- ***ISMS:***

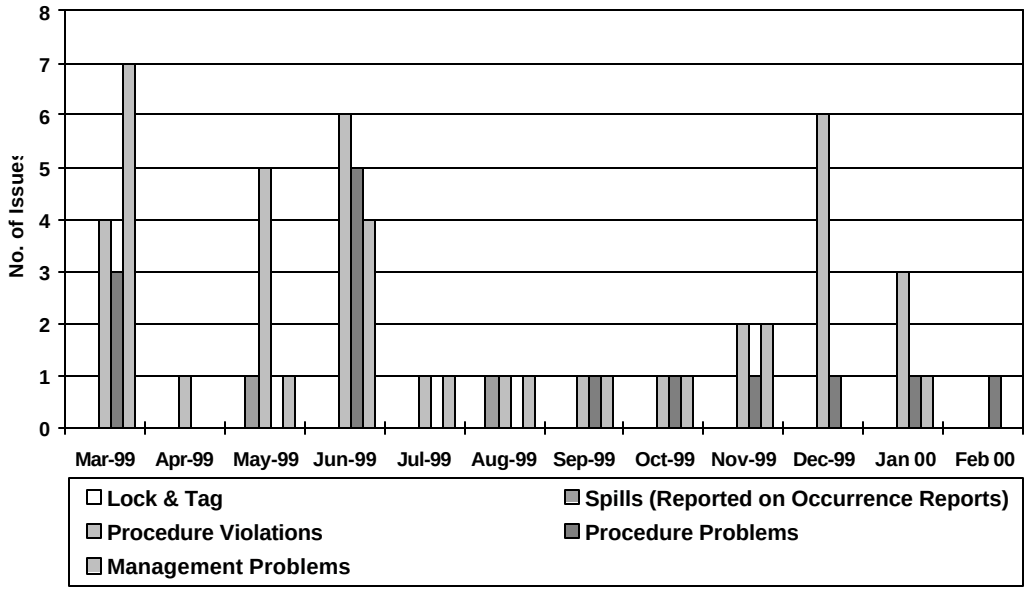
DOE EM Performance Agreement: *Develop and implement Integrated Safety Management (ISM) – September 30.*

Green

Status: *The Kick-Off meeting was held on March 2 and followed by a site tour on March 3. Phase I Verification interviews were completed on March 8, and Phase II Verification interviews were completed on March 16. The DOE Verification Team is currently completing their report. A final debriefing will be presented to BHI Senior Management on Thursday, March 23 prior to the debrief of Keith Klein later that day.*

SAFETY / ISMS / CONDUCT OF OPERATIONS (Total ER Contract) continued:

- ***Conduct of Ops:***



ERC-CATS Trend Data 3/1/99 through 2/29/00

	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan 00	Feb 00
Lock & Tag	0	0	0	0	0	0	0	0	0	0	0	0
Spills (Reported on Occurrence Reports)	0	0	1	0	0	1	0	0	0	0	0	0
Procedure Violations	4	1	5	6	1	1	1	1	2	6	3	0
Procedure Problems	3	0	0	5	0	0	1	1	1	1	1	1
Management Problems	7	0	1	4	1	1	1	1	2	0	1	0

February Conduct of Ops Issues:

Procedure Problem:

Condition Description: *A procedure does not exist for the operation of the OMI Force 1750 CFM exhauster, nor is there a requirement for the operation of the exhaust required in the work control program.*

Corrective Action Plan: *BHI-FS-01, Field Support Administration, Procedure 2.3 "Task Instruction Development" is being revised (Revision 3) to include requirements of providing operating instructions when a tool is used in the performance of a task, and if the tool has operating limits. The determination when operating limits are provided in the task instructions is when a failure in the operation of the tool may impact the safety of the workers, the public, or the environment.*

Green

REGULATORY / EXTERNAL / DOE-RL & HQ ISSUES AND REQUESTS:

Waste Control Plan: *One hundred and forty-five drums of drilling cuttings, slurries, and miscellaneous sampling wastes are currently being stored in a central location in the 200 West Area (BioSite). The majority of the wastes were recently generated (November, 1999 to February, 2000) by well drilling activities associated with the eight RCRA wells drilled under the M-24 TPA milestone with a minor amount from the 618-11 tritium investigation and 100 Area investigations. The waste was managed under a Waste Control Plan developed by BHI and approved by Ecology, Department of Energy – Richland (DOE-RL) and Bechtel Hanford Incorporated (BHI) in September, 1999. Ecology was considered the regulatory lead for such wastes and was the only regulatory agency to approve the plan. The site where the waste is stored is in an EPA-lead operable unit (200-ZP-02).*

Green

On February 14, Ecology issued a letter stating that they intended to rescind the September, 1999 Waste Control Plan effective 30 days (March 16) from receipt of the letter. The letter stated that Ecology found the plan to be excessively broad and that Ecology and EPA would entertain development of operable unit specific waste control plans.

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS continued:

During a meeting with EPA and Ecology on February 24, EPA voiced concerns relative to the September, 1999 Waste Control Plan only being signed by Ecology, the statement that Ecology was the lead regulator for this waste, and the storage of the waste in a EPA lead operable unit.

Status: *EPA and Ecology provided a letter, which allows the continued storage of waste at the Biosite in 200 West. ER continues to work with the regulators to determine the final disposition of the Biosite waste and storage and disposition of newly generated waste.*

Site Wide Seniority (SWS): *Current BHI/THI manual staffing totals 269 personnel. Approximately 225 position openings will become available within the Fluor Hanford organization during FY00. Currently, 70 BHI/THI personnel have applied for transfer through the LAMP (Labor Assets Management Program) Process. Continued loss of personnel will result in additional costs and potential impacts to critical work path activities.*

Green

Status: *Lamping of ERC personnel has begun. For the months of January and February, 18 personnel have transferred to Fluor Hanford. A site wide strategy is required to maintain trained and critical resources on ER work. Lamping of personnel has resulted in additional costs associated with the training of new personnel without compensation from the receiving organization.*

Travel: *Currently, no formal DOE-HQ guidelines have been issued. DOE Travel Guidelines evolved November through January. The DOE-HQ ERC limit is $330K for travel. The submittal used to establish the $330K funding limit did not include actual cost data for any non-ER programs, such as the Office of Science and Technology (DOE-S&T) and the National Analytical Management Program (NAMP). In this scenario, performing non-ER work and travel directly erodes our ER travel base. Any future additional programmatic funding from non-ER sources would present the same kind of problem.*

Green

Status: *The consequence is an impact to the DOE/ERC mission; placing compliance of DOE Orders in jeopardy, causing reduced contractor support for other sites and DOE programs, and causing additional contractor liability without renumeration.*

Funding: *FY01 and FY02 ER funding (target) levels are below minimum compliance requirements. Submitted FY01 President's budget assumes ER funding target at $143M. While this funding level maintains a number of significant activities supporting site cleanup goals, it is far short of maintaining compliance with TPA/other Regulatory commitments for the near term and especially beyond FY01. The recently directed funding target for FY02, at $140.1M, is again significantly short of supporting minimum compliance requirements for FY02 and beyond.*

Yellow

Issues, not funded, that need to be addressed in FY2001 and FY2002 include:

- *200 Area Characterization*
- *Canyon Disposition Initiative*
- *B-Reactor Museum*
- *Historic Building Mitigation Project*
- *200-UP-1 Pump-and-Treat*
- *200-ZP-2 Vapor Extraction (Continued Operations, DNAPPLE Investigation)*
- *Start of 224-B D&D*
- *618-10 and 618-11 Interim Actions*
- *Well Installation*
- *Well Decommissioning*
- *In-Situ Redox (ISRM) Technology Expansion*

Status: *Maintain current TPA/Regulatory commitments in FY00; develop impacts associated with directed funding targets for FY01 and FY02, and support DOE budget submittals and presentations, including discussions with Regulators on projected future shortfalls and prioritization of allocated funding.*

Emerging Work: *Emergence of priority work is impacting the ERC's ability to initiate stretch and superstretch work activities.*

Yellow

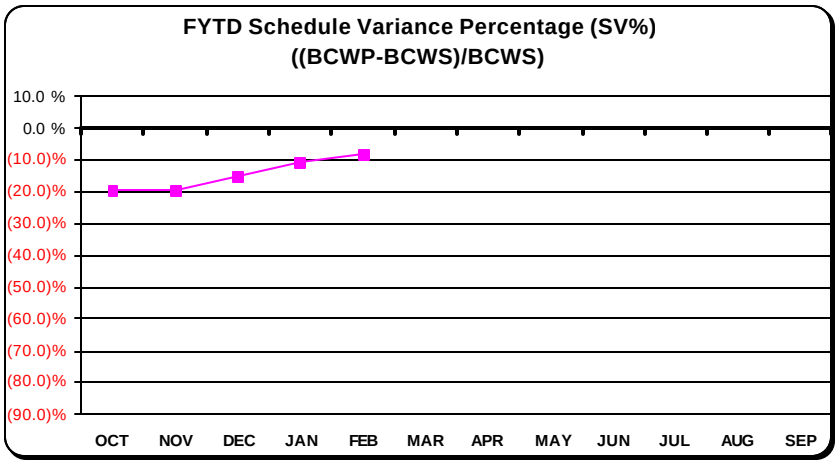
REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS continued:

Status: *A BHI/DOE team was convened to evaluate options. The preliminary recommendation of the team is to include critical emerging work in the stretch category if the Results Management Team (RMT) determines that its priority is higher than existing stretch goals. This recommendation was taken to the RMT, and guidance was given to bring the issue to RL management for discussion. In addition, BHI is developing a proposal for resolution of this and other Performance Incentive (PI) issues.*

ENVIRONMENTAL RESTORATION

APRIL 2000

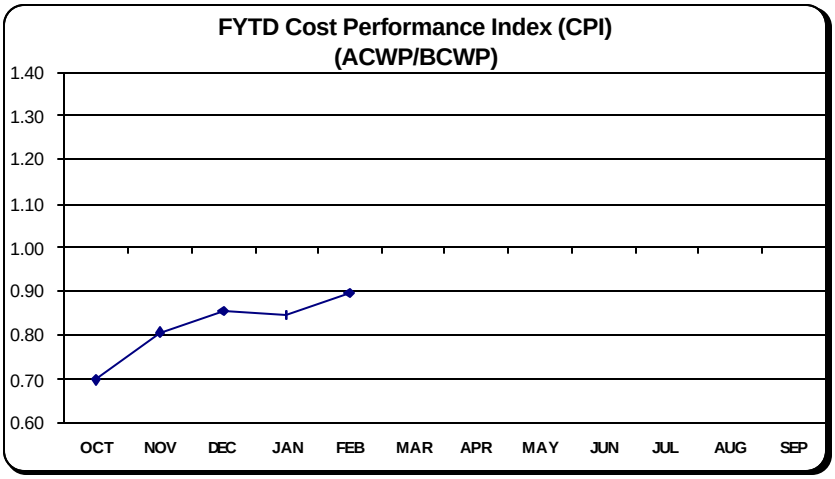
TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):



Green

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,558	8,508	12,288	15,102	13,068	13,864	16,396	12,946	12,156	13,561	11,358	14,321
BCWP	11,711	6,838	11,396	15,035	13,338	-	-	-	-	-	-	-
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	77,388	93,784	106,731	118,886	132,447	143,805	158,127
BCWP	11,711	18,550	29,946	44,981	58,319	-	-	-	-	-	-	-
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,205)	-	-	-	-	-	-	-
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%							
Yr End Sch Carry Over	268	353	240	320	192	-	-	-	-	-	-	-

For variance explanation by PBS see Project Status Section of each project.



Green

Desired performance is 1.0 or less.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,464	14,171	-	-	-	-	-	-	-	
BCWP	11,711	6,838	11,396	15,035	13,338	-	-	-	-	-	-	-	
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	-	-	-	-	-	-	-	
BCWP	11,711	18,550	29,946	44,981	58,319	-	-	-	-	-	-	-	
CV	3,521	3,574	4,240	6,812	5,978	-	-	-	-	-	-	-	
CPI	0.70	0.81	0.86	0.85	0.90	-	-	-	-	-	-	-	
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	68,481	85,829	99,533	111,553	125,572	137,635	152,414	152,606
Yr End BudgetVar	1,967	3,638	4,793	5,074	5,521	-	-	-	-	-	-	-	192

For variance explanation by PBS see Project Status Section of each project.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY2000 PERFORMANCE
FYTD FEBRUARY '00
($K)

Green

	DWP BCWS	CURRENT BCWS	FYTD BCWS	FYTD BCWP	FYTD ACWP	YTD SCHEDULE VARIANCE $	YTD SCHEDULE VARIANCE %	YTD COST VARIANCE $	YTD COST VARIANCE %	*CPI	FY00 EAC
ER01 100 Area R/A	27,364	30,520	11,861	11,921	9,756	60	0.5%	2,165	18.2%	0.82	28,594
ER03 300 Area R/A	3,157	6,906	3,380	3,163	2,144	-217	-6.4%	1,019	32.2%	0.68	5,729
ER04 ER Waste Disposal	16,146	19,944	8,806	8,758	7,483	-48	-0.5%	1,275	14.6%	0.85	18,862
RA-Subtotal	**46,667**	**57,370**	**24,047**	**23,842**	**19,383**	**-205**	**-0.9%**	**4,459**	**18.7%**	**0.81**	**53,185**
ER02 200 Area R/A	3,534	3,968	2,896	2,785	1,821	-111	-3.8%	964	34.6%	0.65	2,877
ER08 GW Management	19,394	22,360	10,160	8,136	7,877	-2,024	-19.9%	259	3.2%	0.97	22,429
VZ01 GW/VZ	11,325	11,437	4,503	3,692	3,542	-811	-18.0%	150	4.1%	0.96	11,291
GW/VZ-Subtotal	**34,253**	**37,765**	**17,559**	**14,613**	**13,240**	**-2,946**	**-16.8%**	**1,373**	**9.4%**	**0.91**	**36,597**
ER06 D&D	8,446	16,113	6,422	5,894	5,622	-528	-8.2%	272	4.6%	0.95	15,967
DD-Subtotal	**8,446**	**16,113**	**6,422**	**5,894**	**5,622**	**-528**	**-8.2%**	**272**	**4.6%**	**0.95**	**15,967**
ER05 S&M	12,291	13,862	5,257	4,759	4,920	-498	-9.5%	-161	-3.4%	1.03	14,041
ER07 Long-Term S&M	47	47	3	3	11	0	0.0%	-8	-266.7%	3.67	51
SM-Subtotal	**12,338**	**13,909**	**5,260**	**4,762**	**4,931**	**-498**	**-9.5%**	**-169**	**-3.5%**	**1.04**	**14,092**
ER10 ERC PM&S	27,597	25,344	7,137	7,134	7,090	-3	0.0%	44	0.6%	0.99	25,137
ER10 RL PM&S	5,800	7,628	3,099	2,075	2,075	-1,024	-33.0%	0	0.0%	1.00	7,628
PM-Subtotal	**33,397**	**32,972**	**10,236**	**9,209**	**9,165**	**-1,027**	**-10.0%**	**44**	**0.5%**	**1.00**	**32,765**
GRAND TOTAL	**135,101**	**158,129**	**63,524**	**58,320**	**52,341**	**-5,204**	**-8.2%**	**5,979**	**10.3%**	**0.90**	**152,606**

**CPI = ACWP/BCWP*

Cost/Schedule Status:

Cost Variance: *At the end of February, the ER Project had performed $58.3M worth of work, at a cost of $52.3M. This accounts for a favorable cost variance of $6.0M (10.3%). The positive cost variance is attributed to site excavation savings, borehole drilling and test pit trenching costs less than planned (due to efficiencies), ISS equipment costs less than planned.*

Schedule Variance: *The ER Project is $5.2M (-8.2%) behind schedule for February. The negative schedule variance is attributed to delays in GW/VZ science and technology (S&T) activities; undetermined GW/VZ subpanel schedules; groundwater well maintenance, resin regeneration/purchase and monitoring; 233-S Facility loadout hood waste removal (awaiting waste container procurement), and roof duct removal, sampling, and analysis; 224-B Facility inspection/survey (delays due to inoperable exhaust system repairs); and late billings for site-wide assessments.*

PERFORMANCE OBJECTIVES:

River Corridor Initiative *(Complete remediation of 60 sq. miles, including Hanford townsite): Initiative is currently identified as a superstretch item, with an approximate value of $5.0M.* ***High visibility public access opportunities****; also a superstretch item (bike trail, road to B Reactor, and boat ramp at Hanford townsite). Feasibility plan completed and is in review.*

Green

Status: *Under development.*

KEY INTEGRATION ACTIVITIES:

The ERDF successfully completed handling its first waste stream from outside the ERC. Transportation and disposal of demolition waste from the 331-A building (located in the 300 Area) took place from February 21 to March 6. Teaming and coordination between all parties (PNNL, FHI, ER's D&D and RAWD Projects) were excellent, and the job proceeded smoothly.

Green

UPCOMING PLANNED KEY EVENTS:

Obtain regulator approval for Tri-Party Agreement Milestone M-16-08B, Complete Remediation and Backfill of 19 Waste Sites in the 100 BC-1 and 100-BC-2 Operable Units, due March 31. (Backfill activities for the Group 3 waste sites were completed on February 25.)

Green

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section B - River Corridor Information

April 2000

Focused on Progress...
Focused on Outcomes!

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

e0003099.2

Remedial Action and Waste Disposal Project (RAWD)

SECTION B - RESTORING THE RIVER CORRIDOR

Financial data as of month-end February. All other data as of March 23, unless otherwise noted.

Remedial Action & Waste Disposal Project (RAWD):

(1) ACCOMPLISHMENTS: *RAWD*

Overall: *During February, shipments totaling 52,105 metric tons (57,436 tons) of contaminated waste were transported to the ERDF. 245,142 metric tons (270,224 tons) have been received in FY00. To date, 1,972,118 metric tons (2,173,899 tons) of material have been received and placed in the disposal facility.*

Excavation of waste sites at 100-D, 100-H, and 300 Area in progress.

100 D Area Remedial Action: *60" steel pipe removed, within 100 feet of DR reactor, was completed. Closeout and backfill of this section is being accelerated to restore access for ISS activities.*

Backfilling of the twelve Group 3 sites at 100-B/C was completed on February 25. This backfilling will satisfy completion of TPA Milestone M-16-08B.

100 H Area Remedial Action: *Significant progress was made on pipeline removal. 138 meters (453 feet) of 1.5 meter (60") diameter steel pipe, 41 meters (135 feet) of 0.15 meter (6") diameter vitrified clay pipe, and 174 meters (570 feet) 0.5 meter (20") diameter steel pipe was removed. Four expansion boxes were demolished. Completion of the pipeline north of H7 would have been completed, but two compressed gas cylinders were uncovered. The cylinders were explosively punctured, one by the Richland Police Department Bomb Squad and one by the Washington State Patrol.*

Green

100 N Area Remedial Action: *Soil remediation at 100-N is scheduled to begin in July to meet the requirements of the Hanford Site RCRA permit. Procurement activities are underway to acquire the services of an excavation/remediation subcontractor. Six proposals were received on February 3. A technical review of the proposals indicated that clarifications were required from all bidders. Clarifications and bidder's Best Revised Offers were received on February 23. Commercial and technical evaluations are continuing. Oral interviews were conducted on March 7-8. Anticipate subcontractor award in early April.*

300 Area Remedial Action: *Numerous drums are being unearthed at Landfill 1A. Most are empty and crushed, but a few are intact and may contain wastes. Historical records are being reviewed and sampling plans are being prepared. Also, some packaging/absorbent material consisting primarily of newspaper has been found with relatively high radiological contamination. A legible portion of the newspaper indicated it was a 1953 issue of the Oregonian. The subcontractor has chosen to use a power screen at Landfill 1A to help facilitate the debris sorting process.*

(2) SAFETY/ISMS/CONDUCT OF OPS: *RAWD*

See Cross-Cutting Package.

(3) BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *RAWD*

Waste Minimization 126-F-1 Ash Pit: *Final Report on the 126-F-1 Waste Minimization Project will be completed by the end of March. A copy of the report will be provided to the Hanford Waste Minimization Program in early April. The project deployed two off-the-shelf technologies (geo-probe and sodium iodide detector) to perform in-situ characterization that resulted in 50% reduction in waste site volume. Preliminary cost savings is estimated at $5M.*

Green

(4) LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *RAWD*

300-FF-2: *Work is ongoing to prepare decision documents for the public review period scheduled for late May. Ecology has issues with the Preliminary Remediation Goals (PRG's) being developed for 300-FF-2. EPA, who supports the PRG's, will be addressing issues with Ecology with support from RL.*

Green

Status: *Work is ongoing to prepare decision documents for the public review period scheduled for late May.*

(4) LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS continued: RAWD

100 Area Burial Grounds: *Approval of the ROD is planned by August 30. Currently tracking on schedule; no issues.*

Green

(5) MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *RAWD*

- ***(5A) DOE Secretarial:***
  None identified at this time.

- ***(5B) DOE EM Performance Agreement:***
  None identified at this time.

- ***(5C) TPA Milestones:***

Milestone	Description	Due Date	(F) / (A) Date	
M-15-23B	*Submit 300-FF-2 Focus Feasibility Study (FFS) and Proposed Plan (PP) for Regulator Review*	*11/30/99*	*11/22/99 (A)*	
M-15-00B	*Complete all 300 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules*	*12/31/99*	*11/22/99 (A)*	
M-16-92B	*ERDF Cells 3 & 4 Ready to Accept Remediation Waste*	*12/31/99*	*12/09/99 (A)*	
M-15-00A	*Complete all Remaining 100 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules (100-KR-2, 100-KR-3, 100-FR-2, 100-IU-2, and 100-IU-6)*	*12/31/99*	*12/21/99 (A)*	**Green**
M-16-08B	*Complete Remediation and Backfill of 22 Waste Sites in the 100-BC-1 and 100-BC-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area*	*3/31/00*	*3/24/00 (F)*	
M-16-13A	*Initiate Remedial Action for 100-FR-1 Operable Unit*	*9/29/00*	*9/29/00 (F)*	
M-16-03E	*Complete Remediation of the Waste Sites in the 300-FF-1 Operable Unit (excluding the 618-A Burial Ground), to Include Excavation, Verification, and Backfilling*	*12/31/00*	*9/08/00 (F)*	
*****M-16-26B***	*Complete Remediation, Backfill and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17)*	*2/28/01*	*2/28/03 (F)*	**Yellow**

***Unrecoverable due to funding constraints. RL needs to negotiate resolution with the regulators. The path forward is to submit a TPA change package and evaluate out-year budgets and priorities.*

- ***(5D) DNFSB Commitment:***
  None identified at this time.

(6A) PERFORMANCE OBJECTIVES: *RAWD*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	*100/300 Area waste excavation, disposal and backfill/regrade.*	*Baseline work is projected to be completed per PI requirements.*

Green

(6B) PEFORMANCE MEASURES: *RAWD – (River and Plateau)*

	DWP FY00	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
Waste Sites	*24*	*41*	*41*	*9*
100 Area Burial Ground Assessments	*0*	*47*	*47*	*47**
300-FF-2 Assessments	*121*	*121*	*121*	*121**
Tons	*389K*	*600K*	*600K*	*309K*

Green

**Proposed Plan, Draft A submittal*

(6C) STRETCH AND SUPERSTRETCH GOALS: *RAWD*

FY00 "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Perform Excavation in Unfunded Sites in 100 B/C, HR-1, FR-1, 100, and 300 Area and Plumes:		
(1) Extended Plumes at 316-1 S. Pond (BCP-20043)		*$1,202.8K*
(2) Additional Plumes at 100-DR (BCP-20050)		*$905.8K*
(3) Additional Plumes at 100-HR (BCP-20119)		*$240.3K*
(4) Additional Plumes at 100-HR (BCP-20130)		*$426.7K*
(5) Additional Plumes at 300-FF (BCP-20113)		*$669.4K*
S/Total Remediation Action Stretch Goals:	***$4,560.0K***	***$3,445.0K***

Green

(6C) STRETCH AND SUPERSTRETCH GOALS continued: *RAWD*

FY00 "Super Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Complete Remediation of 60 Sq. Mi. of Hanford Site:		
(1) Complete Remediation of Hanford Townsite	*$755.0K*	*$0.0K*
(2) Complete Remediation of JA Jones Pit #1 and 600-23 (300-FF-2)	*$1,500.0K*	*$0.0K*
(3) Other Remedial Actions	*$1,395.0K*	*$0.0K*
S/Total Remediation Action Super Stretch Goals:	***$3,650.0K***	***$0.0K***

Green

Status: Plan and estimate developed, current work efforts focusing on stretch activities at this time.

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE: *RAWD*

- ***(7A) Schedule:***

Remedial Action & Waste Disposal Project	BCWS $K	BCWP $K	Variance $K
ER01 100 Area Remedial Actions	*11861*	*11921*	*60*
ER03 300 Area Remedial Actions	*3380*	*3163*	*-217*
ER04 ER Waste Disposal	*8806*	*8758*	*-48*
TOTAL Remedial Actions	***24047***	***23842***	***-205***

Green

PBS-ER-01 – 100 Area Remedial Action
Schedule Variance = ***[+$60K; +0.5%]*** *[Last Month: (-$747K); (-8.1%)]*

Cause: *On Schedule.*

Resolution: *Schedule improvement due to contractor accelerating DR backfill production.*

PBS-ER-03 – 300 Area Remedial Action
Schedule Variance = ***[(-$217K); (-6.4%)]*** *[Last Month: (-$75K); (-2.7%)]*

Cause: *Delay in loadout of waste at Landfill 1D while waiting for regulator variance - minor impact - not on critical path; Subcontractor has elected to work landfill 1B before 1A as originally scheduled – temporary schedule variance – will complete remediation on schedule.*

Resolution: *None required; will complete on schedule. Actually ahead of schedule based on tonnage quantities.*

PBS-ER-04 – Environmental Restoration Waste Disposal
Schedule Variance = ***[(-$48K); (-0.5%)]*** *[Last Month: (-$115K); (-1.6%)]*

Cause: *Late start on ERDF closure design.*

Resolution*: None required - not critical – can complete before September.*

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued: RAWD

- ***(7B) Cost:***

Remedial Action & Waste Disposal Project	BCWP $K	ACWP $K	Variance $K
ER01 100 Area Remedial Actions	*11921*	*9756*	*2165*
ER03 300 Area Remedial Actions	*3163*	*2144*	*1019*
ER04 ER Waste Disposal	*8758*	*7483*	*1275*
TOTAL Remedial Actions	***23842***	***19383***	***4459***

Green

PBS-ER-01 – 100 Area Remedial Action
Cost Variance = ***[+$2165K; +18.2%]*** *[Last Month: +$1883K; +22.3%]*

Cause: *DR contract award on small sites excavation was less than budgeted; FR savings in site prep and staff reductions; labor savings on B/C backfill activities.*

Resolution: *Savings will be used to perform other remediation work.*

PBS-ER-03 – 300 Area Remedial Action
Cost Variance = ***[+$1019K; +32.2%]*** *[Last Month: +$1286K; +47.5%]*

Cause: *Management and administrative cost efficiencies at Landfills 1A/1B, and $500K under accrual in South Process Pond remediation.*

Resolution: *Savings will be used to perform other remediation work.*

PBS-ER-04 – Environmental Restoration Waste Disposal
Cost Variance = ***[+$1275K; +14.6%]*** *[Last Month: +$1487K; +21.2%]*

Cause: *Reflects FY99 over accrual.*

Resolution: *Savings will be used to perform other remediation work.*

(8) REGULATORY ISSUES: *RAWD*

Tri-Party Agreement Milestone: *M-16-26B – Complete Remediation and Backfill of 51 Waste Sites at B/C, DR, and HR by February 28, 2001 will be missed due to lack of funding for 100 Area B/C pipelines.*

Yellow

Status: *A resolution with the regulators is required to be negotiated. The path forward is to submit a Tri Party Agreement Change Package to the regulators for review and evaluate out year funding and priorities.*

Arsenic Strategy for 100 Area Remediation: *Variance sampling was completed in November 1999 for 1607-H2 and 1607-H4 septic systems. Arsenic data in the overburden and shallow zone soils exceeded Remedial Action Goals (RAGs), (Hanford Background). The average ranged from 8-11 mg/kg, maximum – 30 mg/kg; Hanford Background 6.5 mg/kg. Records indicate that no arsenic was used in processes at the 100-H Area Historical research indicates lead arsenate was used as a pesticide in pre-Hanford agricultural lands (predominantly orchards). Application rates were as high as 250 lb. per acres per year. Lead arsenate pesticide was used from the early 1900's to 1942. By 1942, Hanford agricultural land is estimated at 13,000 acres dry land farming and 18,000 acres in irrigation districts.*

Green

Status: *The state background value of 20 ppm (6 ppm was the Hanford background) will be utilized as the cleanup goal for the 100-H and F Operable Units. Ecology and EPA have agreed to this new clean up level. The Remedial Design Report and Sampling Analysis Plan are currently being revised to reflect this new cleanup value for arsenic. A BCP will be processed in April to reflect the required cost and schedule impacts.*

(9) EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *RAWD*

None identified at this time.

(10) DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *RAWD*

116-DR-1 & 2: *Closeout Verification sampling results show a Strontium-90 (Sr^{90}) plume in the shallow zone at 116-DR-1 & 2. There are two issues:*

Green

Issue: *Remediation of this plume may require additional funds and depending on size of the plume could delay start of backfill for the site.*

Strategy: *Closely monitor cumulative tons being excavated from approved plume scope. If tonnage exceeds approval levels, a BCP will be generated addressing the additional scope.*

Issue: *The presence of elevated concentration of Sr^{90} was not detected prior to closeout sampling, as Sr^{90} is a beta emitter not readily detectable with field screening.*

Strategy: *Review analytical process leading up to closeout to identify possible changes in approach (i.e. more sampling) for earlier indication of hard to detect isotopes.*

(11) INTEGRATION ACTIVITIES: *RAWD*

331A Facility: *The ERDF successfully completed handling its first waste stream from outside the ERC. Transportation and disposal of demolition waste from the 331-A building took place from February 21 to March 6. The demolition contractor, Fluor Federal Services, experienced an equipment-related delay that stretched the completion date out further than originally anticipated. Teaming and coordination between all parties (PNNL, Fluor, D&D and RAWD) was excellent and the job proceeded smoothly. A lessons learned/feedback meeting has been scheduled in order to identify how ERDF processes can be optimized.*

Green

K-Basin Waste: *ERDF personnel have been meeting with the members of the Spent Nuclear Fuels Project team in preparation for receiving K-Basins waste. At this point in time, the two groups have developed a schedule and are working on the DQO process. Preparation of Waste Shipping and Receiving Plans is underway. First shipment is scheduled for early June.*

Green

Decommissioning Projects (D&D)

SECTION B - RESTORING THE RIVER CORRIDOR

Financial data as of month-end February. All other data as of March 23, unless otherwise noted.

Decommissioning Projects (D&D):

(1) ACCOMPLISHMENTS: *D&D*

ISS: *Completed demolition of the gas recirculation tunnel on February 11. This completes all demolition at F Reactor, with the exception of the Fuel Storage Basin.*

The 105-D & H Reactor Engineering Evaluation/Cost Analysis (EE/CA) and the 105-D Auditable Safety Analysis (ASA) Drafts are being finalized prior to submitting them to RL in March.

Awarded the SSE pourback subcontract for both F & DR Reactors on February 7.

Completed an ASTD proposal requesting funds in support of the F Reactor Fuel Storage Basin cleanout.

105-B: *A meeting was held with the regulators on February 24 to discuss the TPA Milestone requirements and the path forward for the 105-B Reactor Safe Storage.*

Green

233-S: *Process cell path forward BCP-20141 was approved.*

Completed process hood panel removal and survey mock-up training.

Completed SER, criticality controls and postings training.

Completed asbestos abatement and cutting of two supply duct sections.

224-B: *Submitted draft EE/CA for review and comment. Initiated planning to conduct 224-B walkdowns without B Plant ventilation in operation.*

(2) SAFETY/ISMS/CONDUCT OF OPS: *D&D*

See Cross-Cutting Package.

(3) BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *D&D*

233-S: *The 233-S Radiological Control Supervisor (Kevin Funke) is experimenting with a digital camera and photo editing software to place actual photographs of survey locations into Radiological Control Survey Records. We are also attempting to extract a still photo from video taken in the process cell with the remote survey tool and include that in the survey records. Providing the workers with an actual work location picture with radiological survey information annotated on it, should give them a better physical understanding of the potential hazards.*

Green

(4) LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *D&D*

None identified at this time.

(5) MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *D&D*

- ***(5A) DOE Secretarial:***
  None identified at this time.

- ***(5B) DOE EM Performance Agreement:***
  224-B: *Complete draft EECA and submit to regulators – July 2000.*

  Complete draft SAP and submit to regulators – September 2000.

Green

(5) MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *D&D*

- ***(5C) TPA Milestones:***

Milestone	Description	Due Date	(F) / (A) Date
M-93-05	*Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment*	*6/30/00*	*6/30/00 (F)*

Green

- ***(5D) DNFSB Commitment:***
  None identified at this time.

(6A) PERFORMANCE OBJECTIVES: *D&D*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	*Reactor ISS and preparation of facilities for decommissioning.*	*Baseline reactor ISS work is projected to be completed per PI requirements.*
Transition Central Plateau to Support Long-Term Waste Management	*Maintain facilities until D&D (233-S).*	*FY00 work resequenced via BCP-20141, approved March 14, 2000. New performance indicators TBD.*
	Maintain facilities until D&D (224-B).	*224-B baseline work impacted by inoperable B-Plant exhaust system. Project is evaluating entry with appropriate PPE to conduct required walkdowns.*

Green

(6B) PERFORMANCE MEASURES: *D&D*

	DWP FY00	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
Facilities	*0*	*4**	*4**	*3*

Green

**116-D, 116-DR, 119-DR and 108-F (Final Report scheduled for September 2000).*

(6C) STRETCH AND SUPERSTRETCH GOALS: *D&D*

FY00 "Super Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)	
Continue F Reactor Interim Safe Storage (ISS)	*$2,000.0K*	*$0.0K*	Green
***Public Access to Hanford Townsite and B Reactor* (Requires funds outside of ER)**	*$750.0K*	*$0.0K*	Yellow
S/Total D&D Super Stretch Goals:	***$2750.0K***	***$0.0K***	

**Status: Plan and estimate developed, BCP in process to execute a portion of superstretch.*

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *D&D*

- ***(7A) Schedule:***

Decommissioning Projects	BCWS $K	BCWP $K	Variance $K	
ER06 Decontamination & Decommissioning	*6422*	*5894*	*-528*	Green
Total D&D	***6422***	***5894***	***-528***	

PBS-ER-06 – Decontamination and Decommissioning

Schedule Variance = ***[(-$528K); (-8.2%)]*** *[Last Month: (-$585K); (-10.8%)]*

Cause: *233-S decommissioning delay in removal of roof duct and decon due to replacement of deteriorated glove bag; late receipt of waste containers and CAM equipment at 233-S.*

Resolution: *Duct removal started in late February was completed in mid-March – will correct variance; procurement will increase in next few months and place purchases back on schedule*

Cause: *224-B entry was restricted due to inoperable B-Plant exhaust system.*

Resolution: *Initiated planning for walkdowns without facility ventilation; expect to achieve entry in late March.*

- ***(7B) Cost:***

Decommissioning Projects	BCWP $K	ACWP $K	Variance $K	
ER06 Decontamination & Decommissioning	*5894*	*5622*	*272*	Green
TOTAL D&D	***5894***	***5622***	***272***	

PBS-ER-06 – Decontamination and Decommissioning

Cost Variance = ***[+$272K; +4.6%]*** *[Last Month: +$315K; +6.5%]*

Cause: *ISS general equipment usage less than planned due to dual project usage.*

Resolution: *Will monitor costs. Savings will be used to perform other remediation work.*

Cause: *233-S – Additional cost to correct air flow and installing electrical upgrades in the viewing room; unexpected difficulties resulted in extra cost to remove glovebag from the Loadout Hood area.*

Resolution: *Cost overruns are being trended. Engineering controls have been implemented to resume characterization activities.*

(8) REGULATORY ISSUES: *D&D*

D&H Reactor Impacts of TPA milestones: *The acceleration of the Reactor ISS has gotten out of sync with the current M-93 milestones, especially the competitive procurement and renegotiating milestones for DR, D, and H at the same level of detail as F and C reactors.*

Green

Status: *Initial discussions with the regulators have started which may lead to formal negotiations in the near future. Until that time, EPA is reluctant to support continuing with the next two reactors until the milestones are settled.*

(9) EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *D&D*

None identified at this time.

(10) DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *D&D*

FY01 ISS Funding: *Partial funding in FY01, and no funding in FY02 will result in program suspension and loss of potential cost savings.*

Yellow

Status: *Need strategy to maintain critical resources and visible progress; in past two years accelerated progress has been achieved through supplemental congressional funding.*

224-B: *Entry was restricted due to the inoperable B-Plant exhaust system.*

Yellow

Status: *Forecasted repair dates (April 20) indicate that the scheduled completion of the sampling and analysis plan performance incentive (PI) will be impacted.*

(11) INTEGRATION ACTIVITIES: *D&D*

None identified at this time.

Program Management and Support (PM&S)

SECTION B - RESTORING THE RIVER CORRIDOR

Financial data as of month-end February. All other data as of March 23, unless otherwise noted.

Program Management & Support (PM&S):

(1) ACCOMPLISHMENTS: *PM&S*

Safety & Health: *The design of a cooling garment with an external reservoir was finalized with the manufacturer. A prototype will be shipped to BHI in March. The prototype cooling garment will be part of the protective system to be tested for BHI at the Operating Engineers Technical Center.*

Compliance & Quality Programs/Price Anderson Amendment Act (PAAA): *Conducted an Independent Assessment of the ERC Criticality Safety Program at the request of the RL. The team determined that no imminent nuclear safety hazards exist for the areas assessed. One Corrective Action Request and thirteen observations were identified.*

Project Procurement & Property Management: *BHI received notification from the RL Contracting Officer approving BHIs Balanced ScoreCard (BCS) FY00 Plan. The BCS Plan is intended to be the primary method for DOE-RL to assess the performance of BHI's procurement methodology and provide the basis for the continued approval of BHIs purchasing system.*

Technology Applications: *Accelerated Site Technology Deployment for the F Reactor Fuel Storage Basin cleanout is in final stages of completion and will be submitted to DOE-S&T in response call for proposal by D&D Focus Area. Requesting $750K in DOE-S&T funds for FY00 and FY01.*

Received notice from the Subsurface Contamination Focus Area that the following Technical Task Plans will be funded for FY01 under the GW/VZ Integration Project: Hydrologic Characterization of the Hanford Vadose Zone at Representative Sites ($425K); Vadose Zone Monitoring of the Hanford Site Surface Barrier ($200K). The Principal Investigators for both of these are PNNL personnel.

Environmental Technologies: *Completed an assessment of the onsite 222-S Laboratory. The assessment will result in several findings and observations. The findings and observations do not effect the usability of ERC Project data.*

Planning & Controls: *The Integrated Project Priority List (IPL) development for the FY02 Budget submittal was completed. The IPABS database has also been updated with FY02 PBS data as planned.*

Efforts in support of Site planning initiatives continue, with ER support to provide Baseline data, for alternate work prioritization studies initiated by RL.

Green

(2) SAFETY/ISMS/CONDUCT OF OPS: *PM&S*

See Cross-Cutting Package.

(3) BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *PM&S*

None identified at this time.

(4) LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *PM&S*

Planning & Controls: *Mid-Year Review – May 8-9*

Detail work planning process for FY01-FY03 – Kick-off meeting – June 2

Green

(5) MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *PM&S*

- ***(5A) DOE Secretarial:***

None identified at this time.

(5) MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *PM&S*

- ***(5B) DOE EM Performance Agreement:***
  None identified at this time.

- ***(5C) TPA Milestones:***
  None identified at this time.

- ***(5D) DNFSB Commitment:***
  None identified at this time.

(6A) PERFORMANCE OBJECTIVES: *PM&S*

None identified at this time.

(6B) PERFORMANCE MEASURES: *PM&S*

None planned in FY00.

(6C) STRETCH AND SUPERSTRETCH GOALS: *PM&S*

None identified at this time.

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *PM&S*

- ***(7A) Schedule:***

Program Management & Support	BCWS $K	BCWP $K	Variance $K
ER10 ERC Program Management & Support	*7137*	*7134*	*-3*
ER10 RL Program Management & Support	*3099*	*2075*	*-1024*
TOTAL PM&S	***10236***	***9209***	***-1027***

Green

PBS-ER-10 – ERC Program Management and Support
Schedule Variance = *[(-$1,027K); (-10.0%)]* ***[Last Month: (-$1,724K); (-22.3%)]***

Cause: *Late billing on site-wide assessments.*

Resolution: *RL is discussing billing/timing with other site contractors.*

- *(7B) Cost:*

Program Management & Support	BCWP $K	ACWP $K	Variance $K
ER10 ERC Program Management & Support	*7134*	*7090*	*44*
ER10 RL Program Management & Support	*2075*	*2075*	*0*
TOTAL PM&S	***9209***	***9165***	***44***

Green

PBS-ER-10 – ERC Program Management and Support
Cost Variance = ***[+$44K; +0.5%]*** *[Last Month: +$16K, +0.3%]*

On Budget.

(8) REGULATORY ISSUES: *PM&S*

None identified at this time.

(9) EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *PM&S*

None identified at this time.

(10) DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *PM&S*

None identified at this time.

(11) INTEGRATION ACTIVITIES: *PM&S*

Planning & Controls: *Represented ER at the Hanford Site Change Control Performance Improvement Team (PIT) meeting. The February meeting included preparation of material and presentation of several ER BCP's to the PIT members. ERC's process for administering the Stretch and Superstretch performance incentives was also discussed. The PIT consists of RL and Hanford contractor representatives.*

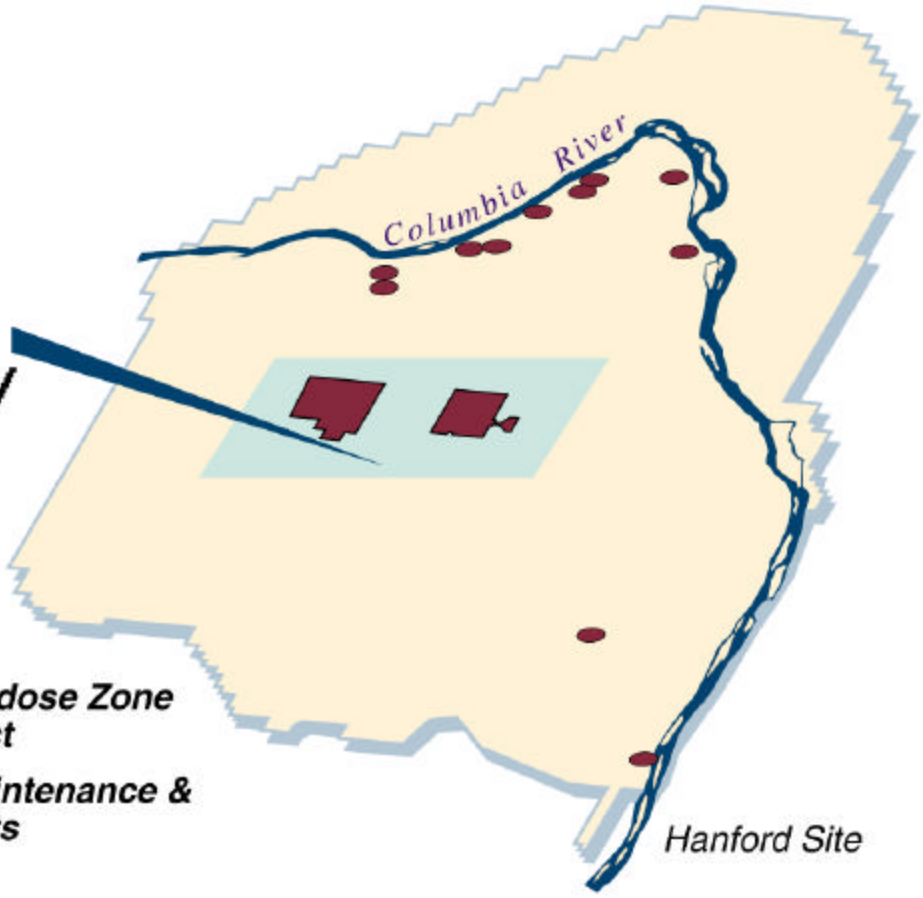
Green

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section C - Central Plateau Information

April 2000



- **Groundwater / Vadose Zone Integration Project**
- **Surveillance / Maintenance & Transition Projects**

Focused on Progress...
Focused on Outcomes!

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0003099.1

Groundwater / Vadose Zone Integration (GW/VZ)

SECTION C - TRANSITIONING THE CENTRAL PLATEAU

Financial data as of month-end February. All other data as of March 23, unless otherwise noted.

Groundwater/Vadose Zone Integration (GW/VZ):

(1) ACCOMPLISHMENTS: *GW/VZ*

Long-Term Monitoring: *Completed Phase I sampling from 22 wells in support of the 618-11 Burial Ground tritium investigation; tritium results have been received from all wells and results of other constituents from well 699-13-13A have been received. Tritium remains elevated greater than 7 million pCi/L in well 699-13-13A and consistent with the regional plume in other wells (up to 54,400 pCi/L).*

Well Drilling, Maintenance, and Decommissioning: *Completed installation of RCRA GW monitoring wells; completion letter issued (six TPA Milestones M-24-00K, M-24-41 thru M-24-45).*

Pump and Treat Systems: *All groundwater pump and treat systems have operated above planned availability levels through February.*

Green

ISRM Drilling/Injection: *Initiated drilling campaign for ISRM; two wells out of sixteen have been drilled to total depth, with one of the two wells completed. (See Item #4 below for out-year work scope).*

Integrated Planning: *Conducted the Regulatory Workshop on Cleanup End-points integration of 100 Area Groundwater, Remedial Action, Decontamination & Decommissioning, and ISS activities. The final report on this waste area will be issued at the end of March, and will contain all the recommendations of the stakeholders, Tribal Nations, regulators, and DOE.*

Public Involvement: *Prepared two press releases, conducted a media event, and briefed the HAB concerning the 618-11 Burial Ground tritium issue.*

(2) SAFETY/ISMS/CONDUCT OF OPS: *GW/VZ*

See Cross-Cutting Package.

(3) BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *GW/VZ*

None identified at this time.

(4) LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS continued: *GW/VZ*

Key ISRM FY2000 Activities:

Green

FY 2001 Activities: (Planned Activities)
Activities: Drill and install 24 ISRM Barrier Wells. Utilize all wells for ISRM Barrier emplacement. [Approximately 240 meters of additional ISRM Barrier length to be constructed in FY 2001.] Drill and install 4 ISRM compliance wells.

FY 2002 Activities: (Planned Activities)
Activities: Drill and install 24 ISRM Barrier Wells. Utilize all remaining wells for ISRM Barrier emplacement. [Approximately 240 meters of additional ISRM Barrier length to be constructed in FY 2002.] Demobilize evaporation pond (FY 2002 or FY 2003 Activity).

(5) MAJOR COMMITMENTS: *GW/VZ*

- ***(5A) DOE Secretarial:***

None identified at this time.

(5) MAJOR COMMITMENTS continued: *GW/VZ*

- ***(5B) DOE EM Performance Agreement:***

Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.

Status: *Forecasted to be complete by April 28.*

Complete Installation of the Wells and Initiate Injection of the Barrier for Phase 2 of the In Situ REDOX Manipulation Project (PBS ER08) due September 30.

Green

Status: *Forecasted to be complete by September 30.*

- ***(5C) TPA Milestones:***

Milestone	Description	Due Date	(F) / (A) Date
M-13-22	*Submit U-Pond/Z-Ditches Cooling Water Group Work Plan*	*12/31/99*	*12/14/99 (A)*
M-24-00K	~~**FY99 Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year (CY) if Required**~~	*2/29/00*	*2/17/00 (A)*
M-24-41	*Install Three (3) Additional RCRA Wells for the SST WMA S-SX*	*2/29/00*	*2/17/00 (A)*
M-24-42	*Install One Replacement Well for the 216-S-10 Pond*	*2/29/00*	*2/17/00 (A)*
M-24-43	*Install One (1) Additional RCRA Well for the SST WMA TX-TY*	*2/29/00*	*2/17/00 (A)*
M-24-44	*Install One Replacement Well for the 216-B-3 Pond *This is an extension of a CERCLA vadose borehole.*	*2/29/00*	*2/17/00 (A)*
M-24-45	*Install Two (2) Additional RCRA Wells for the SST WMA B-BX-BY*	*2/29/00*	*2/17/00 (A)*
M-13-23	*Submit 200-TW-1 Work Plan*	*8/31/00*	*8/31/00 (F)*
M-13-24	*Submit 200-TW-2 Work Plan*	*8/31/00*	*8/31/00 (F)*
M-13-00K	*Submit (1) 200 NPL RI/FS (RFI/CMS) Work Plan*	*12/31/00*	*12/31/00 (F)*
M-13-25	*Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan*	*12/31/00*	*12/31/00 (F)*
****M-24-00L***	*Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year (CY) 2000 if Required*	*12/31/00*	*12/31/00 (F)*

Green

Yellow

**Ecology and DOE have not agreed on the number of wells. Item is currently in dispute.*

- ***(5D) DNFSB Commitment:***

None identified at this time.

(6A) PERFORMANCE OBJECTIVES: *GW/VZ – (River and Plateau)*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	*Manage groundwater plumes per interim RODs.*	*Baseline work is projected to be completed per PI requirements, BCP-20065 was submitted and approved to extend the ISRM drilling schedule as a result of late signing of the 100-HR-3 ROD.*
Transition Central Plateau to Support Long-Term Waste Management	*Complete system assessment capability.*	*Baseline work projected to be completed per PI requirements*
	Soil sites assessments.	*Baseline work projected to be completed per PI requirements.*
	Manage groundwater plumes per interim RODs	*All measures projected to meet PI requirements; all baseline work projected to be completed per PI requirements.*

Green

(6B) PERFORMANCE MEASURES: *GW/VZ*

None planned in FY00.

(6C) STRETCH AND SUPERSTRETCH GOALS: *GW/VZ*

FY00 "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Groundwater Management – Resin Purchase:		
(1) Resin Purchase (BCP-20115)	*$406.6K*	*$406.6K*
Complete Partitioning of Interwell Treatment at 200-ZP-1 and 200-ZP-2	*$299.4K*	*$0.0K*
S/Total GW – Vadose Zone Stretch Goals:	***$706.0K***	***$406.6K***

Green

(6C) STRETCH AND SUPERSTRETCH GOALS continued: *GW/VZ*

FY00 "Super Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Provide Permanent Solution for Hanford Groundwater Plumes	*$750.0K*	*$0.0K*
Complete Remediation of 60 Sq. Mi. of Hanford Site:		
(1) Verify and administratively close 170 wells	*$450.0K*	*$0.0K*
(2) Decommissioning of 200 wells	*$900.0K*	*$0.0K*
S/Total GW – Vadose Zone Super Stretch Goals:	***$2,100.0K***	***$0.0K***

Green

Status: Plan and estimate developed, current work efforts focusing on stretch activities at this time.

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *GW/VZ*

- *(7A) Schedule:*

Groundwater Vadose Zone Integration	BCWS $K	BCWP $K	Variance $K
ER02 200 Area Remedial Actions	*2896*	*2785*	*-111*
ER08 Groundwater Management	*10160*	*8136*	*-2024*
VZ01 Groundwater/Vadose Zone	*4503*	*3692*	*-811*
TOTAL Groundwater	***17559***	***14613***	***-2946***

Green

PBS-ER-02 – 200 Area Remedial Action (Assessment)
Schedule Variance = *[(-$111K); (-3.8%)]* ***[Last Month: +$120K; +4.7%]***

Cause: Miscellaneous assessment work rescheduled.

Resolution: None required.

PBS-ER-08 – Groundwater Management
Schedule Variance = *[(-$2024K); (-19.9%)]* ***[Last Month: (-$1236K); (-16.1%)]***

Cause: *Groundwater Monitoring sample collection and analysis (PNNL) fell behind schedule in October/November, due to difficulties in obtaining NCO bargaining unit personnel, and has not yet recovered.*

Resolution: *Additional NCOs have been added and a recovery schedule implemented; unexpected sampling at the 618-11 Burial Ground will impact recovery timing; full recovery is not expected before summer.*

Cause: *Waste shipments and regeneration at Pump and Treat units have been delayed due to equipment availability problems; no significant impact.*

Resolution: *Waste shipments have been scheduled through Fluor Hanford.*

Cause*: 100-HR-3 delay in shipment of waste to ERDF, resin regeneration, and ISRM subcontract activities.*

Resolution: *Waste shipments have been scheduled through FHI and resin purchase delays will be recovered in spring.*

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: *GW/VZ*

PBS-VZ-01 – Groundwater/Vadose Zone

Schedule Variance = ***[(-$811K); (-18%)]*** *[Last Month: (-$782K); (-21.3%)]*

Cause: *Integration Planning is behind schedule, due to resource availability to support Logic Diagram.*

Resolution: *Dedicated resources are now assigned and schedule is expected to be recovered. Policy Work group is delayed to early April to better achieve objective of group; no impact to successor activities.*

Cause: *Peer Review - The National Academy of Science meeting date was changed to April.*

Resolution: *Schedule variance will be eliminated when the meeting is held.*

Cause: *Science and Technology – The S&T Roadmap is behind, due to resource availability.*

Resolution: *Dedicated resources have been assigned and issuance of the Roadmap document is scheduled for April.*

Cause: *Science and Technology – Late award of other National Lab contracts, plus field investigations were incorrectly scheduled in the DWP.*

Resolution: *Variance will continue to grow for several months then diminish throughout the remainder of the fiscal year.*

- *(7B) Cost:*

Groundwater Vadose Zone Integration	BCWP $K	ACWP $K	Variance $K
ER02 200 Area Remedial Actions	*2785*	*1821*	*964*
ER08 Groundwater Management	*8136*	*7877*	*259*
VZ01 Groundwater/Vadose Zone	*3692*	*3542*	*150*
TOTAL Groundwater	***14613***	***13240***	***1373***

Green

PBS-ER-02 – 200 Area Remedial Action (Assessment)

Cost Variance = ***[+$964K; +34.6%]*** *[Last Month: +$1046K; +39.1%]*

Cause*: Borehole drilling was combined with RCRA drilling resulting in cost savings; efficiencies learned in prior work were applied to Gable Mountain and B-Pond test pit trenching, resulting in savings; number of samples required was reduced.*

Resolution: *Savings will be used to perform other remediation work.*

PBS-ER-08 – Groundwater Management

Cost Variance = ***[+$259K; +3.2%]*** *[Last Month: +$327K; +5.1%]*

Cause: *Fewer support personnel were required than planned.*

Resolution: *Savings will be used to perform other remediation work.*

PBS-VZ-01 – Groundwater/Vadose Zone

Cost Variance = ***[+$150K; +4.1%]*** *[Last Month: +$484K; +16.7%]*

Cause: *Costs of system assessment capability development less than planned.*

Resolution: *Savings will be used to perform other remediation work.*

(8) REGULATORY ISSUES: *GW/VZ*

200-ZP-2: *Regulatory agencies desire continued operation of the 200-ZP-2 vapor extraction unit (not included in DWP).*

Yellow

Status: *Project personnel met with EPA (Doug Sherwood), to discuss the need to restart ZP-2 pending completion of the cost estimate to perform the Portitioning Interwell Tracer Test (PITT) test. Decision to be made to either restart ZP-2 or initiate the PITT test by June 1. PITT test estimate will be completed by the end of March, with management review to be completed by mid April. A BCP for ZP-2 restart has also been completed.*

200-UP-1: *Regulatory agencies desire continued operation of the 200-UP-1 pump and treat system (not included in DWP).*

Yellow

Status: *BHI received direction from the Contracting Officer Representative (COR) to extend operations until the end of FY00. The Groundwater Project will also include operations of UP-1 per FY01-FY03 DWP. A trend has been signed by the COR and a BCP prepared.*

200 Area RI/FS: *Approximately 700 soil contaminated sites (200 Area) grouped into 23 process-based operable units are to be characterized by year 2008 and remediated by 2018. Currently, no out-year funding exists beginning in FY01. Long-term, RL must decide its budgetary position toward assessment and cleanup of the 200 Area liquid sites. The Regulator position is to submit TPA change packages for each operable unit work plan for enforceability in completing the RI through ROD based on existing TPA milestones.*

Yellow

Status: *DOE has prepared a TPA change package for the 200-CW-1 operable unit containing RI/FS milestones for FY00 only. In addition, DOE is currently working on a long-term strategy for prioritizing the 200 Area assessment and remediation activities in conjunction with other site cleanup decisions. BHI has developed a proposal for inclusion of all interim milestones with "TBD" dates for out year milestones.*

Waste Control Plan: *The Waste Control Plan (WCP) for well services is being revoked by Ecology, and the WCP requirement for signature by the EPA has been questioned.*

Yellow

Status: *EPA and Ecology provided a letter which allows the continued storage of waste at the Biosite in 200 West. ER continues to work with the regulators to determine the final disposition of the Biosite waste and storage and disposition of newly generated waste.*

Resin Regeneration: *Off-Site Resin Regeneration on hold. (U.S. Filter Violations – 7 total.)*

Yellow

Status: *Vendor recently inspected, violations identified, and Enforcement Conference completed on March 15. EPA CERCLA off-site authorization to use facility is in question pending resolution of issues.*

Well Installation: *RL provide funds for CY-2000 GW Well installation. (Tracked as an issue prior to November.)*

Yellow

Status: *Ecology and DOE have not agreed on the number of wells. Item in dispute. BCP to be submitted once scope is defined. Note: This is a TPA milestone that needs to be completed by December 31.*

Monitoring Wells: *A high tritium value was identified in a monitoring well for the 618-11 Burial Ground.*

Yellow

Status: *The tritium investigation is divided into two phases. Phase I is the initial sampling of existing wells in the area for tritium and other constituents of interest. Phase II is the further characterization of the tritium in the groundwater near the 618-11 Burial Ground.*

(8) REGULATORY ISSUES continued: *GW/VZ*

Phase I: *The data evaluation of the Phase I sampling event is currently underway. A letter report that will assist in the Phase II plan is currently being prepared. A briefing on the critique of reporting and the Phase 1 results were presented at the HAB ER committee meeting on March 14. This presentation was well received and questions centered around the "trip wires" for reporting, understanding the hydrogeology near the waste site, and blending Phase I and II results with remediation plans.*

Phase II: *The DQO for Phase II planning is underway as well.*

Waste Handling Issue: *On February 24, BHI determined that Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) non-radioactive miscellaneous solid waste (MSW) had been inadvertently transported off the Hanford Site and disposed in landfills.*

Yellow

This MSW was generated during groundwater well sampling, groundwater well maintenance, groundwater well drilling and groundwater level measurements. The MSW consists of items such as wipes, surgical gloves, 5 micron filters, stickers, and tape. Some of this MSW is deposited in site dumpsters. The dumpsters are then emptied by another site contractor and transported to a local offsite landfill. This disposal practice has been in effect for several years.

At issue is that some of the MSW may have contacted 200 West Area groundwater that is managed as F001 (carbon tetrachloride) listed waste and 100-N Area groundwater which is managed as F003 (may contain methanol) listed waste. By definition, any material that comes in contact with listed waste can also be considered listed.

The groundwater in the 200 West Area contains low levels of carbon tetrachloride that is a volatile organic. It is expected that little or no carbon tetrachloride would be present in the MSW when it was shipped offsite. Methanol has not been detected in 100 N Area groundwater; therefore, it is expected that methanol would not be present in the MSW.

The landfills, other contractors and subcontractors have been notified. The EPA and the WA Dept of Ecology were briefed on Thursday February 24.

Status: *The offsite shipment of materials potentially containing listed waste continues to be tracked. Corrective actions were taken in mid February to eliminate the possibility for releasing materials containing listed waste from the groundwater services operations. An occurrence report was prepared and the appropriate agencies and vendors were notified. Worst case samples were taken to determine if the materials shipped offsite contained any detachable listed waste. Initial results indicate that the listed waste exists at very low levels immediately after the sampling but was not detachable within 24 hours. Additional results are expected back this week. After the complete results are received, a summary report will be prepared and provided to all parties involved.*

(9) EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *GW/VZ*

None identified at this time.

(10) DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *GW/VZ*

None identified at this time.

(11) INTEGRATION ACTIVITIES: *GW/VZ*

None identified at this time.

Surveillance / Maintenance and Transition Project (SM&T)

SECTION C - TRANSITIONING THE CENTRAL PLATEAU

Financial data as of month-end February. All other data as of March 23, unless otherwise noted.

Surveillance/Maintenance & Transition Project (SM&T):

(1) ACCOMPLISHMENTS: *SM&T*

105-KE Reactor: *Continued to collect and stage legacy waste for shipping from 105-KE reactor. Removal is approximately 60% complete and three ERDF containers have been loaded, one has been shipped. Began to collect and stage legacy waste for shipping from 105-KW reactor.*

183-N Water Treatment Plant: *Continued to review the final design package for the new water plant; subcontractor has begun the installation of the new piping system; and phase I deactivation of the existing water plant was initiated (Stretch Goal).*

CDI: *Completed the Non-Destructive Evaluation (NDE) of crane drum at 221-U canyon (CDI) and issued the final report.*

Green

(2) SAFETY/ISMS/CONDUCT OF OPS: *SM&T*

See Cross-Cutting Package.

(3) BREAKTHROUGHS/OPORTUNITIES FOR IMPROVEMENT: *SM&T*

None identified at this time.

(4) LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *SM&T*

None identified at this time.

(5) MAJOR COMMITMENTS: *SM&T*

- ***(5A) DOE Secretarial:***
  None identified at this time.
- ***(5B) DOE EM Performance Agreement:***
  None identified at this time.
- ***(5C) TPA Milestones:***
  None identified at this time.
- ***(5D) DNFSB Commitment:***
  None identified at this time.

(6A) PERFORMANCE OBJECTIVES: *SM&T*

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	*Deactivation and preparation for decommission.*	*KE/KW legacy waste removal behind schedule due to additional regulatory requirements and resource allocation (RCT's/manual). BCP-20075 approved to extend schedule by three weeks. Baseline work is projected to be completed per PI requirements.*
Transition Central Plateau to Support Long-Term Waste Management	*Perform S&M/risk reduction on inactive facilities to eliminate/stabilize environmental, human health hazards until D&D; Perform CDI activities.*	*CDI baseline work projected to be completed per PI requirements. DOE-Waste Management funding shortfalls will require scope adjustment.*

Green

(6B) PERFORMANCE MEASURES: *SM&T*

None planned in FY00.

(6C) STRETCH AND SUPERSTRETCH GOALS: *SM&T*

FY00 "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Deactivate 183-N Water Treatment Plant	*$131.0K*	*$131.0K*
Asbestos Abatement & Repairs (100, 200, & 300 Areas)	*$494.0K*	*$0.0K*
Complete the CDI Technical Work to Support the Phase II Feasibility Study	*$625.0K*	*$0.0K*
S/Total SM&T – Facility Transition Stretch Goals:	***$625.0K***	***$131.0K***

Green

Yellow

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *SM&T*

- *(7A) Schedule:*

Surveillance/Maintenance & Transition Project	BCWS $K	BCWP $K	Variance $K
ER05 Surveillance & Maintenance	*5257*	*4759*	*-498*
ER07 Long-Term Surveillance & Maintenance	*3*	*3*	*0*
TOTAL SM&T	***5260***	***4762***	***-498***

Green

(7) PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: ***SM&T***

PBS-ER-05 – Surveillance and Maintenance

Schedule Variance = *[(-$498K); (-9.5%)]* ***[Last Month: (-$329K); (-7.7%)]***

Cause: *Preparation and submittal of an unplanned Waste Management Plan to Regulators for 105-KE legacy waste removal delayed start of field activities.*

Resolution: *The Waste Management Plan has been completed, and field activities commenced in late December; additional craft resources were added to help recover schedule.*

Cause: *CDI process cell access work delayed due to canyon crane being down for repairs.*

Resolution: *Crane NDE completed – recommendations implemented; schedule will be recovered.*

PBS-ER-07 – Long-Term Surveillance and Maintenance (BCWS $47K for FY00)

Schedule Variance = N/A

Cost Variance = N/A

- *(7B) Cost:*

Surveillance/Maintenance & Transition Project	BCWP $K	ACWP $K	Variance $K
ER05 Surveillance & Maintenance	*4759*	*4920*	*-161*
ER07 Long-Term Surveillance & Maintenance	*3*	*11*	*-8*
TOTAL SM&T	***4762***	***4931***	***-169***

Green

PBS-ER-05 – Surveillance and Maintenance

Cost Variance = ***[(-$161K); (-3.4%)]*** *[Last Month: (-$30K); (-0.8%)]*

Cause: *Canyon crane NDE testing and repair not anticipated; PUREX shotcreting and roof inspections were unanticipated work.*

Resolution: *BCP approved for NDE testing; roof repair work trended.*

(8) REGULATORY ISSUES: *SM&T*

None identified at this time.

(9) EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *SM&T*

None identified at this time.

(10) DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *SM&T*

B-Plant/Purex Roof Funding: *Ensure funding is provided by Transition Projects per MOUs, to support roof repair commitments for B-Plant and Purex. Facilities have transitioned to ER with the commitment to fund these repairs from the releasing Project.*

Yellow

Status: *Funding for roof repairs have* ***not*** *been included within the current above-the-line Integrated Priority Lists (IPL) targets.*

Stack Ventilation: *Problems with stack ventilation, retired filters, and other issues documented in letter, M. C. Hughes to R. Gerton, 9/28/99, "Remaining Issues for the Transition of the B-Plant Facility from DOE-Transition to ER".*

Yellow

Status: *Facility transferred to ERC September 30, 1999. MOA with open items assigned cost/schedule responsibility received September 30. Original MOA schedule not met. Test ran and in less than 24 hours, new cracks appeared. Filter changeout work near completion. New estimate for ventilation repair being developed. Analysis group review is currently forecasted for April 15. Regulator has been advised that the "New Date" for restoration of ventilation is now April 15.*

(10) DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere) continued: *SM&T*

B Reactor Duct Removal: *State Historical Preservation Office (SHPO) approval of the B reactor duct removal work will not meet our current schedule.*

Green

Status: *A BCP was submitted to delete the duct removal work scope from the baseline. A separate BCP will be prepared to perform an engineering analysis to seal the roof where the duct is left in place as requested by RL. (Possibly FY2001 work.)*

CDI Funding: *DOE-Waste Management has indicated that funding ($400K) will not be available for the CDI in FY00. DOE-S&T additional funding ($700K) is also in question.*

Green

Status: *The $400K that was planned from Waste Management has been BCP'd by ER to manage this shortfall. The remaining $350K from DOE-S&T was included in the March FIN Plan and should be available by the end of March.*

(11) INTEGRATION ACTIVITIES: *SM&T*

None identified at this time.